

## Operations with linear functions

- 1) Given  $f(x) = 3x - 4$  and  $g(x) = -7x + 9$ , create a new equation  $k(x) = f(x) + g(x)$ .
- 2) Given  $f(x) = 3x - 4$  and  $g(x) = -7x + 9$ , create a new equation  $k(x) = f(x) - g(x)$ .
- 3) Given  $f(x) = 3x + 1$  and  $g(x) = 2x - 4$ , create a new equation  $k(x) = f(x) \times g(x)$ .
- 4) Given  $f(x) = 5x - 3$  and  $g(x) = x + 6$ , create a new equation  $k(x) = f(x) \times g(x)$ .
- 5) Given  $f(x) = 3x - 4$  and  $g(x) = -7x + 9$ , create a new equation  $k(x) = g(x) - f(x)$ .
- 6) Given  $f(x) = 3x - 4$  and  $g(x) = -7x + 9$ , create a new equation  $k(x) = g(x) + f(x)$ .